# Performance Data Sheet

## AJB2444ZXA

## General Information

| | | | |
|---|---|---|---|
| **Model** | AJB2444ZXA | **Refrigerant** | R-404A |
| **Test Condition** | ARI | **Performance Test Voltage** | 115V ~ 60HZ |
| **Return Gas** | 4.4°C (40°F) RETURN GAS | **Motor Type** | CSR |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **80** | **90** | **100** | **110** | **120** | **130** | **140** |
| **-40** | Btu/h | 2760 | 2450 | 2140 | 1830 | 1520 | 1210 | 902 |
| | Watts | 824 | 806 | 788 | 769 | 749 | 729 | 708 |
| | Amps | 9.06 | 8.65 | 8.23 | 7.80 | 7.36 | 6.92 | 6.47 |
| | Lb/h | 47.7 | 44.0 | 40.2 | 36.4 | 32.6 | 28.7 | 24.8 |
| **-35** | Btu/h | 3300 | 2930 | 2560 | 2190 | 1830 | 1460 | 1090 |
| | Watts | 908 | 895 | 880 | 866 | 851 | 835 | 819 |
| | Amps | 9.53 | 9.21 | 8.89 | 8.56 | 8.22 | 7.87 | 7.52 |
| | Lb/h | 56.3 | 52.4 | 48.4 | 44.5 | 40.4 | 36.3 | 32.1 |
| **-30** | Btu/h | 3910 | 3490 | 3060 | 2630 | 2200 | 1770 | 1350 |
| | Watts | 992 | 983 | 973 | 963 | 953 | 942 | 931 |
| | Amps | 10.1 | 9.85 | 9.62 | 9.39 | 9.14 | 8.89 | 8.63 |
| | Lb/h | 66.3 | 62.1 | 58.0 | 53.8 | 49.5 | 45.2 | 40.8 |
| **-25** | Btu/h | 4600 | 4110 | 3620 | 3130 | 2650 | 2160 | 1670 |
| | Watts | 1080 | 1070 | 1070 | 1060 | 1060 | 1050 | 1050 |
| | Amps | 10.7 | 10.6 | 10.4 | 10.3 | 10.1 | 9.96 | 9.79 |
| | Lb/h | 77.5 | 73.2 | 68.8 | 64.4 | 59.9 | 55.4 | 50.8 |
| **-20** | Btu/h | 5350 | 4800 | 4250 | 3700 | 3150 | 2600 | 2040 |
| | Watts | 1160 | 1160 | 1160 | 1170 | 1170 | 1170 | 1160 |
| | Amps | 11.3 | 11.3 | 11.3 | 11.2 | 11.1 | 11.1 | 11.0 |
| | Lb/h | 90.1 | 85.6 | 81.0 | 76.3 | 71.6 | 66.9 | 62.1 |
| **-15** | Btu/h | 6170 | 5560 | 4940 | 4330 | 3710 | 3090 | 2480 |
| | Watts | 1250 | 1260 | 1270 | 1270 | 1280 | 1280 | 1290 |
| | Amps | 12.1 | 12.1 | 12.1 | 12.2 | 12.2 | 12.2 | 12.2 |
| | Lb/h | 104 | 99.3 | 94.5 | 89.6 | 84.7 | 79.7 | 74.7 |
| **-10** | Btu/h | 7040 | 6370 | 5690 | 5010 | 4320 | 3640 | 2960 |
| | Watts | 1340 | 1360 | 1370 | 1380 | 1390 | 1410 | 1420 |
| | Amps | 12.8 | 12.9 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 |
| | Lb/h | 119 | 114 | 109 | 104 | 99.1 | 93.9 | 88.6 |
| **-5** | Btu/h | 7970 | 7230 | 6480 | 5740 | 4990 | 4240 | 3490 |
| | Watts | 1440 | 1460 | 1480 | 1500 | 1520 | 1540 | 1560 |
| | Amps | 13.6 | 13.8 | 14.0 | 14.2 | 14.4 | 14.6 | 14.8 |
| | Lb/h | 136 | 131 | 125 | 120 | 115 | 109 | 104 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **0** | Btu/h | 8950 | 8140 | 7330 | 6510 | 5700 | 4880 | 4060 |
| | Watts | 1550 | 1570 | 1600 | 1630 | 1650 | 1680 | 1700 |
| | Amps | 14.4 | 14.7 | 15.0 | 15.3 | 15.6 | 15.8 | 16.1 |
| | Lb/h | 154 | 148 | 143 | 137 | 132 | 126 | 120 |
| **5** | Btu/h | 9980 | 9100 | 8220 | 7330 | 6450 | 5560 | 4670 |
| | Watts | 1660 | 1690 | 1730 | 1760 | 1790 | 1820 | 1860 |
| | Amps | 15.2 | 15.6 | 16.0 | 16.3 | 16.7 | 17.0 | 17.4 |
| | Lb/h | 173 | 167 | 162 | 156 | 150 | 144 | 138 |
| **10** | Btu/h | 11000 | 10100 | 9140 | 8190 | 7230 | 6280 | 5320 |
| | Watts | 1780 | 1820 | 1860 | 1900 | 1940 | 1980 | 2020 |
| | Amps | 16.1 | 16.5 | 17.0 | 17.4 | 17.8 | 18.3 | 18.7 |
| | Lb/h | 194 | 188 | 182 | 176 | 170 | 164 | 158 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.545653E+04 | 1.332571E+03 | 1.199072E+01 | 1.966472E+02 |
| C2 | 3.085730E+02 | 1.090307E+01 | 3.504401E-02 | 4.055922E+00 |
| C3 | -8.151640E+01 | 2.701492E+00 | 2.930245E-02 | -5.406314E-01 |
| C4 | 1.127921E+00 | 9.488180E-02 | 6.833104E-04 | 2.675837E-02 |
| C5 | -1.338884E+00 | 1.315411E-01 | 1.614238E-03 | -4.287440E-03 |
| C6 | 5.343321E-03 | 2.126736E-04 | 2.749099E-05 | 1.508350E-04 |
| C7 | -5.560181E-03 | 1.490078E-03 | -1.041735E-05 | 5.953456E-06 |
| C8 | -2.591778E-03 | 6.779803E-04 | -4.262519E-06 | -6.747764E-08 |
| C9 | -1.322312E-04 | 3.603198E-05 | -2.933162E-08 | -1.059738E-07 |
| C10 | -3.109509E-05 | -5.137674E-06 | -2.009144E-07 | -1.246221E-06 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature